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5 1950 ✓
NATIONAL ADVISORY COMMITTEE
FOR AERONAUTICS

1724 F Street, Northwest
Washington 25, D. C.

M.L. 275 (Monthly list of documents released by the NACA during February 1950)

Libraries in most of the important cities throughout the country, as well as libraries of schools, manufacturers, and other organizations dealing with aeronautics, are supplied copies of these publications for reference.

TECHNICAL NOTES

- TN 2012 Results of Shear Fatigue Tests of Joints with $\frac{3}{16}$ -Inch-Diameter
24S-T31 Rivets in 0.064-Inch-Thick Alclad Sheet.
By: Marshall Holt.
- TN 2013 A Study of the Use of Experimental Stability Derivatives in the Calculation
of the Lateral Disturbed Motions of a Swept-Wing Airplane and
Comparison with Flight Results.
By: John D. Bird and Byron M. Jaquet.
- TN 2014 Static Longitudinal Stability and Control of a Convertible-Type Airplane
as Affected by Articulated- and Rigid-Propeller Operation.
By: Roy H. Lange and Huel C. McLemore.
- TN 2015 Water Landing Investigation of a Model Having a Heavy Beam Loading
and a 30° Angle of Dead Rise.
By: Sidney A. Batterson and A. Ethelda McArver.
- TN 2016 Floating Characteristics of Rudders and Elevators in Spinning Attitudes
as Determined from Hinge-Moment-Coefficient Data with Application
to Personal-Owner-Type Airplanes.
By: William Bihrlé, Jr.
- TN 2017 A Small-Deflection Theory for Curved Sandwich Plates.
By: Manuel Stein and J. Mayers.
- TN 2018 Low-Speed Investigation of a Thin, Faired, Double-Wedge Airfoil Section
with Nose Flaps of Various Chords.
By: Leonard M. Rose and John M. Altman.
- TN 2019 Penetration of Air Jets Issuing from Circular, Square, and Elliptical
Orifices Directed Perpendicularly to an Air Stream.
By: Robert S. Ruggeri, Edmund E. Callaghan, and Dean T. Bowden.
- TN 2020 Compressive Strength of Flanges.
By: Elbridge Z. Stowell.

- TN 2021 Buckling of Thin-Walled Cylinder under Axial Compression and Internal Pressure.
By: Hsu Lo, Harold Crate, and Edward B. Schwartz.
- TN 2023 Determination of the Rate of Roll of Pilotless Aircraft Research Models by Means of Polarized Radio Waves.
By: Orville R. Harris.
- TN 2025 Effect of Valve Overlap and Compression Ratio on Variation of Measured Performance with Exhaust Pressure of Aircraft Cylinder and on Computed Performance of Compound Power Plant.
By: Carroll S. Eian.
- TN 2026 Tables for Determining Reduction of Energy and Intensity of X-Rays and Gamma-Rays at Various Scattering Angles in Small Thicknesses of Matter.
By: G. Allen.
- TN 2028 Effect of Tunnel Configuration and Testing Technique on Cascade Performance.
By: John R. Erwin and James C. Emery.
- TN 2029 The Interpretation of Biaxial-Tension Experiments Involving Constant Stress Ratios.
By: S. B. Batdorf.
- TN 2030 Variation with Temperature of Surface Tension of Lubricating Oils.
By: Sydney Ross.
- TN 2031 Comparative Foaming Characteristics of Aeronautical Lubricating Oils.
By: W. W. Woods and J. V. Robinson.
- TN 2032 Foaming of Mixtures of Pure Hydrocarbons.
By: J. V. Robinson and W. W. Woods.
- TN 2033 Rise of Air Bubbles in Aircraft Lubricating Oils.
By: J. V. Robinson.
- TN 2034 First-Order Theory for Unsteady Motion of Thin Wings at Supersonic Speeds.
By: Barry Moskowitz and W. E. Moeckel.
- TN 2035 A Method of Determining the Effect of Airplane Stability on the Gust Load Factor.
By: Bernard Mazelsky and Franklin W. Diederich.
- TN 2036 Charts of Airplane Acceleration Ratio for Gusts of Arbitrary Shape.
By: Bernard Mazelsky.

- TN 2037 Resistance of Six Cast High-Temperature Alloys to Cracking Caused by Thermal Shock.
By: M. J. Whitman, R. W. Hall, and C. Yaker.
- TN 2041 An Experimental Investigation of the NACA 63₁-012 Airfoil Section with Leading-Edge and Midchord Suction Slots.
By: George B. McCullough and Donald E. Gault.
- TN 2042 Time-Dependent Downwash at the Tail and the Pitching Moment Due to Normal Acceleration at Supersonic Speeds.
By: Herbert S. Ribner.

REPORTS

- Rept. 906 Determination of Stresses in Gas-Turbine Disks Subjected to Plastic Flow and Creep.
By: M. B. Millenson and S. S. Manson.
Formerly issued as TN 1636.
- Rept. 907 Equations for the Design of Two-Dimensional Supersonic Nozzles.
By: I. Irving Pinkel.
Formerly issued as RM E8B02.
- Rept. 914 Effect of Centrifugal Force on the Elastic Curve of a Vibrating Cantilever Beam.
By: Scott H. Simpkinson, Laurel J. Eatherton, and Morton B. Millenson.
Formerly issued as TN 1204.
- Rept. 915 Extension of Useful Operating Range of Axial-Flow Compressors by Use of Adjustable Stator Blades.
By: John T. Sinnette, Jr., and William J. Voss.
Formerly issued as ACR E6E02.
- Rept. 917 The Effects of Aerodynamic Heating and Heat Transfer on the Surface Temperature of a Body of Revolution in Steady Supersonic Flight.
By: Richard Scherrer.
Formerly issued as TN 1300.
- Rept. 918 Theoretical Motions of Hydrofoil Systems.
By: Frederick H. Imlay.
Formerly issued as TN 1285.
- Rept. 923 Effect of Afterbody Length and Keel Angle on Minimum Depth of Step for Landing Stability and on Take-Off Stability of a Flying Boat.
By: Roland E. Olson and Norman S. Land.
Formerly issued as TN 1571.



4.

REPORTS

M.L. 275

Rept. 929 Dislocation Theory of the Fatigue of Metals.
By: E. S. Machlin.
Formerly issued as TN 1489.

TECHNICAL MEMORANDUMS

TM 1256 The Boundary Layers in Fluids with Little Friction.
By: H. Blasius.